

Datasheet for ABIN7274077

IL2 Receptor beta Protein (His-Avi Tag,Biotin)[Go to Product page](#)**4** Images

Overview

Quantity:	100 µg
Target:	IL2 Receptor beta (IL2RB)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL2 Receptor beta protein is labelled with His-Avi Tag,Biotin.

Product Details

Sequence:	Ala27-Asp239
Purity:	> 95% as determined by Tris-Bis PAGE,> 95% as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	The affinity constant of 0.101 µM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

Target:	IL2 Receptor beta (IL2RB)
Alternative Name:	IL-2 R beta (IL2RB Products)
Background:	CD122, IL-15 R beta, IL-2 R beta, IL-2R subunit beta, IL2RB, P70-75, p75, RP5-1170K4.6,IL-2 R beta is a member of the cytokine receptor superfamily. Human IL-2 R beta cDNA encodes a 551 amino acid residue precursor Type I membrane protein with a 26 residue signal peptide, a 214

Target Details

residue extracellular region, a 25 residue transmembrane region and a 286 residue cytoplasmic domain. Functional IL-2 receptors can exist in two affinity states on cell surfaces, the high affinity complex consisting of heterotrimers of the alpha, beta, and gamma chains, and the intermediate affinity complex comprising heterodimers of the beta and gamma chains.

Molecular Weight: 27.5 kDa. Due to glycosylation, the protein migrates to 40-50 kDa based on Tris-Bis PAGE result.

NCBI Accession: [NP_000869](#)

Pathways: [JAK-STAT Signaling](#), [Growth Factor Binding](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

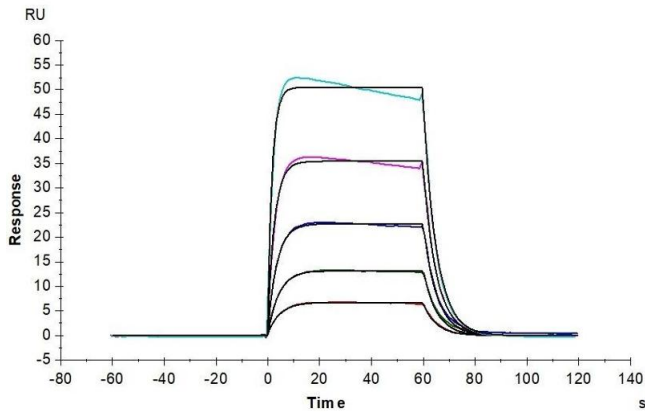
Reconstitution: Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.

Buffer: Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5 % trehalose is added as protectant before lyophilization.

Storage: 4 °C, -80 °C

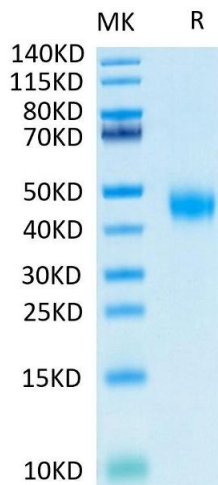
Storage Comment: Reconstituted protein stable at -80°C for 12 months, 4°C for 1 week. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

Expiry Date: 12 months



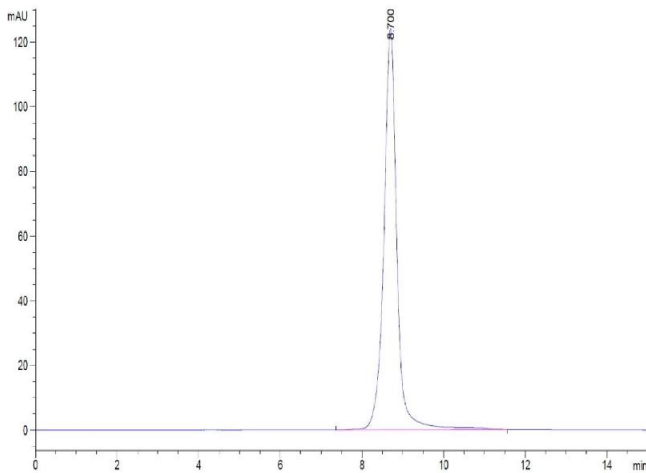
Surface Plasmon Resonance

Image 1. Biotinylated Human IL-2 R beta, His Tag captured on CM5 Chip via Anti-His Antibody can bind Human IL-2, No Tag with an affinity constant of 0.101 μ M as determined in SPR assay (Biacore T200).



SDS-PAGE

Image 2. Biotinylated Human IL-2 R beta on Tris-Bis PAGE under reduced condition. The purity is greater than 95 %.



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. The purity of Biotinylated Human IL-2 R beta is greater than 95 % as determined by SEC-HPLC.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7274077.